Approved For Release 2002/05/07 : CIA-RDP96B01172R089900020007-5

ODP 8-0484 27 MAR 1973

		AUDMODD MOTHER TROPS	Dividence of Committee	
		MANORANDOM FOR:	Director of Security	
		FROM :	Clifford D. May, Jr. Director of Data Processing	25X
		SUBJECT :	Computerized Database - Areas Approved for Storage of Collateral and SCI Material	
		REFERENCES :	a. Memo to D/ODP fm D/OS dtd 27 Jan. 77, same subject.b. Memo to D/OS fm D/ODP dtd 25 Feb. 77, same subject.	
25X1		personnel availades analyst from B D begin work on the Division, has continuous analysis of the begin work of the begin	My previous memorandum (reference b.) stated as the earliest date that ODP would have ble to work on your request. However, an ivision of Applications is now available to is project. Chief, B 2 of the Special 2 to begin a preliminary study of your require-	5X
25X1	•	Storage Faciliti readily implemen a significant re necessary data a pared an analysi and recommended	er analyzing the requirements of the proposed es system we have concluded that we could to it using ODP's central computers. However, source commitment is required to collect the nd enter it into the data base. We have press of the data collection and preparation tash procedures to obtain the data necessary for see are contained in the attached study.	,
25X1			ause there is a significant resource commit-	
25X1A		I recommend that study with those attachment. Bef- the system devel- with the finding If you concur wi	Security, ODP, and other Agency components, coordinate the review of this people identified in paragraph 1. of the ore you and I approve ODP's continuing with opment, we should be certain that we agrees and recommendations of the attached study. the the study's recommendations and want ODP on the schedule provided in the study, please	se

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> cc: C/BD/ODP C/AS/ODP

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for this project and may be reached or your staff have any questions con	assigned responsibility on ext if your if your if your if your ingestions or exect.
	Clifford of May, Jr.
Att: a/s	· .
CONCUR:	-
Director of Security	Date

STORAGE FACILITIES DATA BASE (STORFAC) STUDY REPORT

References:	(1) Memo fr CD/ODP, dtd 16 Nov 725X1A subject: Requirements Definition for Storage Facility Data Base 25%
	(2) Memo fr Chief, Compartmented Information Branch, DD/P&M/OS, dtd 15 Jan 77, subject: Top Level Requirements for Storage Facility Data Base 257
1.	gency personnel who have an interest in the
Storage Facil	ities Data Base Concept presented in References
1 and 2, met	during the month of December 1977. The following
inidividuals	were present:
-	- C/CIB/SSC/OS - ISB/PSD/OS - OD&E Security Staff - OD&E Security Staff - OL Security Staff - C/BD/ODP - C/SMS/DDS&T - NFAC Security Staff - CSD/OC - C/ISSG/OS

The references had been studied prior to the meeting. The data base concept was thoroughly discussed. The final outcome of the meeting was a general concurrence that such a system is needed, general agreement on the types of data which should be collected and maintained, and satisfaction with the formats

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Approved For Release 2002/05/07: CIA-RDP96B01172R009900020007-5 and frequencies of the reports which should be produced. The data elements which would be needed to support the system are listed in Reference 1. Report formats are detailed in Reference 2.

- The general consensus was that a system was needed to inventory and monitor secure storage facilities.

 It was questioned, however, whether the development should proceed at this time, since the Agency is currently performing other studies related to industrial security practices. It was decided that ODP should expend sufficient effort to investigate the following:
 - Where is all the data which is needed for data base generation currently located?
 - How can this information be gathered and reduced to machine readable format?
 - What input media should be used (cards, CAMEXEC, etc)?
 - What are the STORFAC development costs?
- How long will it take to develop such a system?
 The paragraphs which follow address these questions and contain the findings of this short study effort.
- 3. Data which is needed to generate a Storage Facilities file is stored in several offices at various locations. Some of the data sources will be relatively easy

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to research. Some of the data is stored in voluminous folders and will require considerable effort and some source familiarity in order to extract the required information. The primary offices which currently maintain most of the required information are:

- Office of Security (OS)
 - Special Security Center (SSC)
 - Information Systems Security Group (ISSG)
 - Physical Security Division (PSD)
 - Industrial Security Branch (ISB)
 - Overseas Security Branch (OSSB)
 - Domestic Security Branch (DSB)
 - Technical Security Division (TSD)
- Office of Logistics (OL), Security Staff
- Office of Communications (OC)

- Communications Security Division (CSD)

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Additional data sources may be identified as the development effort progresses.

1. Information on approximately 1,200 active storage locations is maintained in SSC. This information is logged and maintained on manual records (5 x 7 index cards). Each card contains data for one location. Data values on the index cards are labeled and, therefore, would be relatively easy to extract. The following information is normally

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available on each facility index card:

- Facility Name
- Activity Indicator
- Facility Location
- ° Cover
- SPECLE Number (assigned by SSC)
- Agency Interest
- Security Officer w/telephone number
- Alternate Security Office w/telephone number
- Responsible Agency, Component, Division, Contract Team
- Type of Operation
- Facility Clearance Level
- Accreditation Date
- Special Activities
- Associated SCI Projects
- Comments

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1,900 contract folders. About 600 of these folders are maintained for active contracts/contractors. The folders contain all the information concerning the contract that a vendor has with the Agency. In addition, the folder has information regarding the contractor facility in which classified information is stored and/or produced. These folders are for facilities which may or may not be the same as those facility index cards maintained by SSC. Detailed examination of these folders would normally yield the following data items:

- Facility Name
- Facility Location
- ° Clearance Level
- Sterility Code
- Security Officer w/telephone number
- Alternate Security Officer w/telephone number
- Security Survey Date(s)
- ° Component/Division/Team Responsible for the Facility

Extraction of the data from the OL Security Staff contract

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	folde Approved For Folgase 2092/05/07: EVAL RDP96B01372F5009900020007.5 even if
·	the researcher had a limited familiarity with the contents of
	the folder. This is primarily due to the quantity of data
	stored for a particular contract.
25X1	6. The OS/PSD maintains folders on approximately
25X1A	active stations located around the world. Information for
	most of the facilities (stations) maintained by PSD is also
	located on the 5 x 7 index cards kept by SSC. In addition to
	data which describes and locates a station, the folders
	identify storage type, cover and type of operation. Also,
	they specify the historical security survey and security audit
	dates which are required for development of STORFAC. These
	folders contain a considerable volume of data and would require
	some degree of familiarity with the contents in order to re-
	search and retrieve the necessary historical information.
25X1	7. The OC, CSD and officers maintain data 25X1
	for installations on which a COMSEC or TEMPEST survey is to
	be or has been conducted. Information on COMSEC and TEMPEST 25X1
	surveys is maintained and readily accessible in CSD and
	on chronological lists which identify the facility and specify
	the latest survey dates.
25X1	8. OS/ISSG maintains a data file which contains
25X1A	records on approximately computer facilities. These
	computer areas are primarily located at contractor facilities.
	Information in this data file consists of the following:

- ° Facility Name
- ° Facility Location
- ° Clearance Level
- Responsible Component/Division/etc.
- ° Date of latest computer Facility Inspection
- Identification of the types of Computing Equipment w/vendor

This data is processed periodically to produce tabular reports in several different sequences (Location, Facility Name, etc.). It would be relatively easy to research and extract data for inclusion in the STORFAC data base.

- 9. TSD maintains information concerning the dates on which an ACM survey was conducted at a specific facility. This information is readily available for extraction and inclusion in the STORFAC data base.
- order to develop the STORFAC data base is how to collect, edit, collate, and enter the information which is available at the various sources. A procedure must be developed which will either (1) allow all available data to be collected, collated and edited for each unique facility prior to introduction to the data base; or (2) allow for incremental development. After considering both approaches, it is suggested that the second approach be considered for the development effort. An incremental approach would allow for development of a partial data base which would contain partially complete records. Subsequent operations would supply additional facilities not currently included in the SSC files and provide the

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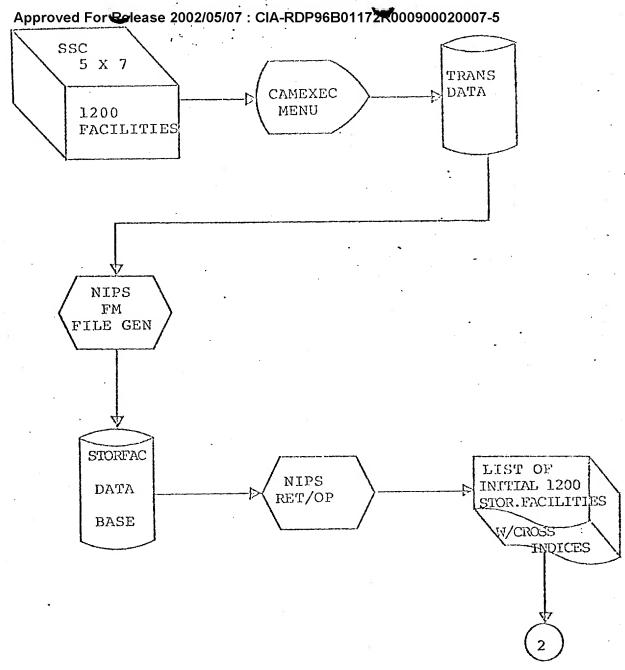
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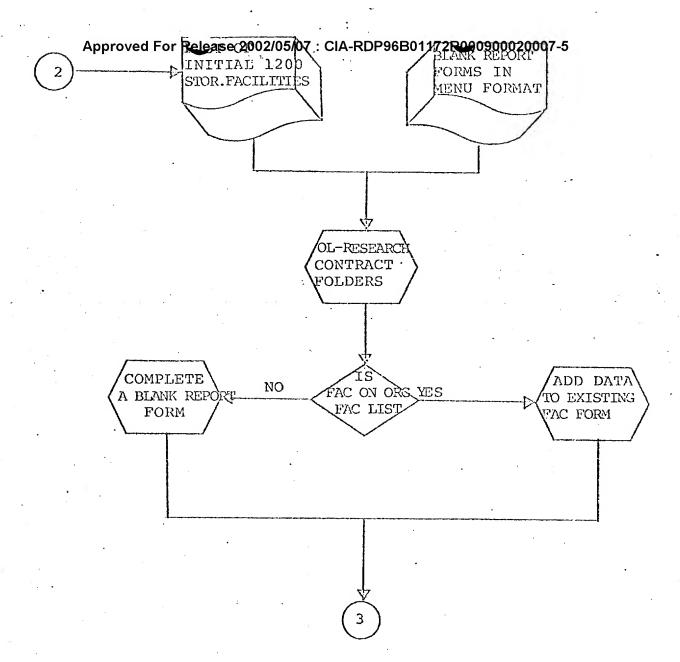
Approved For Release 2002/05/07: CIA-RDP96B01172R000900020007-5 necessary information which would make the partially completed records complete. Figure 1, pages 1 through 7 is a flow diagram of the suggested approach.

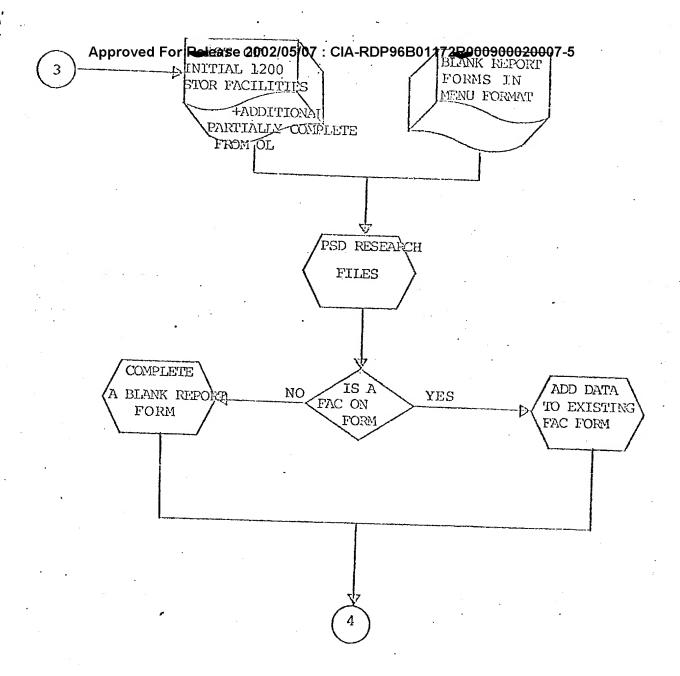
In attempt to assemble all the necessary information prior to data base generation would require a significant redundant effort to code information at the various data source locations. In addition, it would place a tremendous burden upon SSC to collate all the data for a unique facility prior to its introduction to the data base.

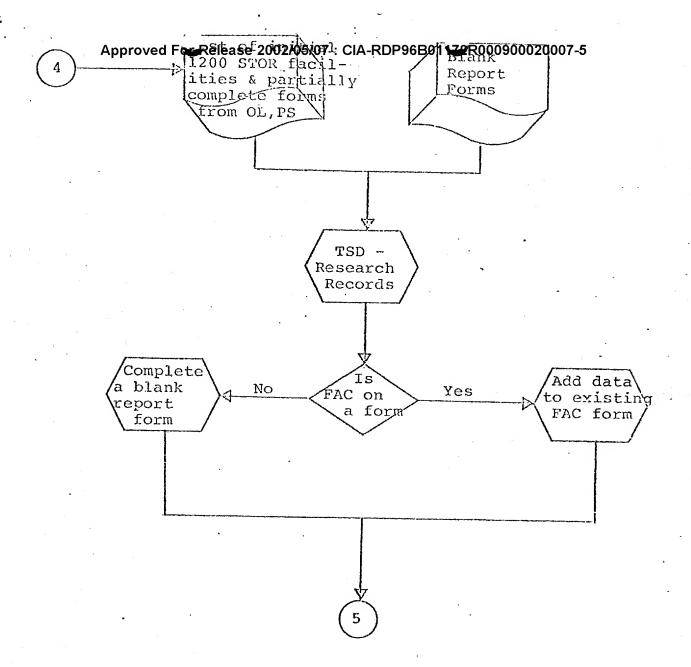
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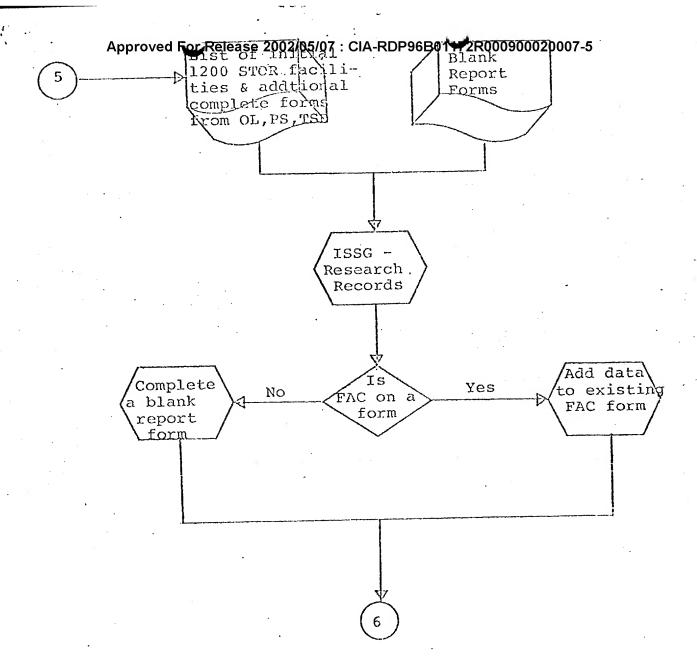
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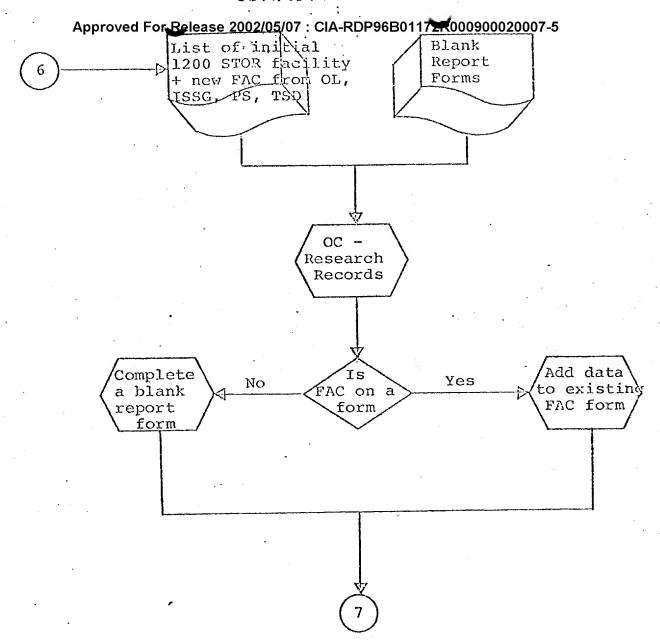












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Approved For Release 2002/95/02n CIARDEPSENDING AMADOSCO 2000 Would begin in the SSC of the Office of Security. Data from each of the 1,200 index cards would be examined. Data items required in the STORFAC data base which are available in SSC would be entered on a Delta Data terminal using a CAMEXEC menu. Figure 2 is a copy of the menu which identifies those data items input by SSC. Edit routines would be invoked, where applicable, to ensure that the data entered conformed to acceptable formats, ranges and values prescribed by SSC. After the data passes the applicable edits, it will be stored in a transaction disk file. Periodically (perhaps once or twice a week), the transaction data would be batched into a job stream which would invoke the File Maintenance (FM) module of NIPS. This transaction information would be used to generate (first time) or add to the STORFAC data base.

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After each FM process, SSC would be provided with an audit trail report which would consist of a formatted dump of the content of each STORFAC facility record which was added to the file or changed in any way during the FM run. This activity would continue until data from all 1,200 index cards had been extracted and entered into the file. At this point in time, a partially complete STORFAC data base would be available for processing by SSC. However, this file would only contain partially completed data records. The other information needed to make each facility record complete resides in the other offices identified in paragraph 1 of this report.

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Approved For Release 2002/05/07: CIA-RDP96B01172R990900020007-5 In order to continue the incremental development effort, the data residing in the STORFAC data base would be extracted, sorted and processed to produce a master report similar in appearance to the CAMEXEC menu used for data introduction. The sequence of this report would be in facility Only data for one facility would appear on each name order. printed page of the report. At the same time, one line per facility cross index listings would be produced to assist the other offices who will be contributing data in their facility research and identification activities. The cross indices could be provided in facility location by State, SPECLE Number, etc. orders, as considered necessary for identification purposes. The master report format would contain all of the known (previously entered by SSC) data together with sufficiently labeled space for that information not. currently in the data base.

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- CAMEXEC menu would be produced for use by the offices other than SSC, to enter data for facilities not currently resident in the STORFAC data base. These forms would have space for all the required data fields with labels for data entry.
- 16. The master report, cross index reports and a supply of blank menu forms would then be forwarded to the OL Security Staff for their inputs.

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Approved For Release 2002/05/07: CA-RDP96B01172R0009000200075 must be researched in OL. If the folder is for a facility already in the STORFAC data base, additional items of information (dates, etc.) must be extracted and entered in the appropriate space on the partially complete master report page for that facility. If the folder is for a facility not currently in the STORFAC data base, one of the blank forms must be completed. All applicable data in the folder must be extracted and entered. Figure 3 identifies those data values which would be supplied by the OL Security Staff folder research effort.

When all 600 contract folders have been 18. researched, the partially completed forms, the blank menus and the cross index listings will be forwarded to Physical The records in PSD would be researched, data ex-Security. tracted and entered on the forms in the same manner as the process accomplished in OL. (Figure 4 identifies those data values which would be supplied by the PSD folder research effort.) When all PS facility records have been exhausted, the forms and index reports will be forwarded to TSD where the process is repeated (Supply ACM dates for existing STORFAC records, create new forms for previously not identified facilities.). When the TSD activity has been completed, the entire package will be passed to ISSG for their data extraction process. When the ISSG extraction effort is finished, the package is

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passed to Speak 2002/05/07: Clare Page 1172 Rue 9002 2002 5 on process is repeated. When complete, OC will return the entire package to SSC. (Figure 5 identifies those data values which would be supplied by TSD; Figure 6 identifies those data values supplied by ISSG; and Figure 7 identifies the data values supplied by OC/CSD and

19. Upon receipt of the package from OC, the final stage of incremental development can begin. Each facility form must be examined to determine if it is a new facility (not one of the original 1,200 SSC records) or if it is one of the original SSC facilities. If it is a form for a new facility, SSC must determine its SPECLE Number and assign a machine reference number (MRN). Since the MRN is the record control element for STORFAC, care must be exercised to ensure that this MRN is unique from all others. When these two data fields have been completed, the information can be entered via the CAMEXEC menu and transactions created and stored on the transaction file.

facilities, the data added by OL, PSD, ISSG, TSD, and OC would be entered via the CAMEXEC menu and stored with the transactions produced in the previous step. When all information has been entered, the transaction data would be batched into an FM job stream and the STORFAC file updated. At this point, SSC should be in control of a complete Storage Facilities Data Base. It is suggested that Master Format Reports be produced for each

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of the major data con 2002/05/07 SCIA-RDP96B01172R00990002000708 ducted, new facilities identified and errors found in the data base, blank forms similar to the CAMEXEC menu can be used to forward new or changing information to SSC for inclusion in the data base.

21. The previous paragraphs briefly describe a suggested process which could be used to incrementally develop the STORFAC data base. The pages which follow estimate the costs for this effort. Costs are identified for Agency research and entry effort in working days, software development in working days and machine costs in terms of computer usage

and terminal hook-up costs.

The cost for the ongoing File Maintenance 22. activities which will be required to keep STORFAC current are difficult to determine. It is estimated that the data base This process would normally be updated on a weekly basis. would be required to enter data for new facilities and update information on existing facilities. In addition, it is assumed that there would be approximately 2 report production runs Each File Maintenance run will require approximately per week. 1 minute CPU time at a cost of \$22 per run. Each report production run will require approximately .5 minute CPU time at a cost of \$11 per run. Computer usage costs will be billed to The cost for data extraction and terminal entry will depend upon the amount of activity associated with introduction

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Approved For Release 2002/05/07: CIA-RDP96B01172R05900020007-5 of new secure facilities and the number of surveys/inspections performed by the various teams and offices. Terminal hook-up time for entry of a new facility will be in the range of 5 to 10 minutes. Hook-up time for entering new data on an existing facility will depend upon the amount of data being added. This should not exceed more than 5 minutes per facility.

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The pages which follow provide an estimate for the various costs associated with STORFAC development. Figure 8 presents the estimate for programmer effort associated with software development which would be charged to the ODP budget. Figure 9 provides an estimate of the machine costs for software and data base development activities which would be charged to the ODP budget. Figure 10 is an estimate of the number of work days which would be required to extract and enter the data via a terminal using a CAMEXEC menu. Figure 11 is a schedule for STORFAC development in terms of calendar weeks per task.

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PROGRAMMER

Software Development Cost Estimates

CAMEXEC MENU W/EDITS	; 22	work	days
NIPS FILE ANALYSIS & DESIGN	10	\$t	**
FILE MAINTENANCE LOGIC (Design, Code, Test)	15	· h	• .
SSC DESIGNED REPORTS (6)	15	, n	11
AUDIT TRAIL REPORT	2	н	11 -
DUPLICATION OF CAMEXEC MENU REPORT	2	ti.	11
CROSS INDEX REPORT	1	11	11
FILE GENERATION & TEST	5	11	11
NIPS SOFTWARE DOCUMENTATION	10	n .	11
USER TRAINING & MONITORING	5	tr	11
COVERSION TABLES	2	11	11
TOTAL	89	work	days

Note: This translates into approximately \$10,800 @ \$600 per work week.

 $(18 \text{ wk } \times \$600 = \$10,800)$

Figure 8. Programmer Software Development Cost Estimates

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MACHINE COST ESTIMATES

SOFTWARE DEVELOPMENT COMPUTER COST (approx. 1 hour CPU time)	\$1,300
SOFTWARE DEVELOPMENT TERMINAL HOOK-UP COST (approx. 200 hours @ \$12 hour)	\$2,400
COMPUTER COST FOR FILE GENERATION & REPORT PRODUCTION DURING INCREMENTAL DEVELOPMENT (approx5 hour CPU time)	\$ 650
TERMINAL HOOK-UP TIME FOR SSC DATA ENTRY DURING INCREMENTAL DEVELOPMENT (75 facilities per day = 320 hours at \$12 per hook-up hour)	\$3,840
TOTAL MACHINE COST	\$8,190

Figure 9. Machine Cost Estimates

Approved For Release 2002/05/07: CIA-RDP96B01172R0000000007-5 DATA EXTRACTION COSTS IN

TERMS OF WORKING DAYS

SSC ORIGINAL DATA EXTRACTION & CAMEXEC ENTRY TIME	20-25	person	work	days
OL DATA EXTRACTION	20-30	n	51-	BF
PSD DATA EXTRACTION	20-30	16	11	21
TSD DATA EXTRACTION	10-15	li .	ŧr	T?
ISSG DATA EXTRACTION	10-15	"	ír	17
OC/CSD DATA EXTRACTION	10-15	n		n
SSC CAMEXEC ENTRY OF NEW FACILITIES & ADDITIONAL DATA	20-25	\$f	**	, tr
TOTAL	110-155	person	work	days

Note: If records must be researched in other offices, the data extraction work day costs must be increased proportionately.

Figure 10. Data Extraction Cost Estimates

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